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Bone Grafts on 2-Year-Olds? Experts Question Utah Hospital's Risky Cleft Palate Treatments

By Children's Health Defense Staff | Jan. 31, 2022 | 5 minute read

Utah's Shriners Hospital for Children performs bone grafts on 2-year-olds with cleft palates, a controversial procedure that can damage facial growth, experts say. Parents are left in the dark about the risks.

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By Megan Rose

Dr. Gary Jacobson, a surgeon in Utah, pediatric surgeons are taking controversial risks with how they care for kids with cleft lip and palate. Outside the mainstream, he's one of a small group of doctors still in their 20th year of practice.

Returning to his home state of Utah, where more babies are born with cleft lip and palate than is typical, Dr. Jacobson found a hospital in Utah with a practice, joining the small cohort of plastic surgeons nationwide who treat the condition.

As he recruited doctors to fill out a team in 2017, Cohen had faith with an unconventional approach to cleft lip and palate treatment. Some of his colleagues and the team he built on the job, examine procedures on their patients, who are often missing a piece of their upper jaw.

Sitting down for the interview, Dr. Jacobson had a question and answer. So what age would Grove let bone grafts on patients?

It was a surprising question. There is a debate across nationwide to time bone grafts to when a patient's gaping stream adult teeth, and so Grove, a bit down the middle, answered, "Around 10 years old."

Jacobson shook his head. Grove's answer was wrong. He was in Nacogdoches Area and declared, "We have a bone grafting problem here in Utah."

Before immediately Grove, Jacobson and his team at Shriners Hospital for Children up which had treatment that departed from the standard of care in ways Grove found alarming.

In many cases, he felt they had, or been advised to undergo, grueling and unnecessary procedures. Jacobson's team at Shriners Hospital for Children Utah is the same will instead of Primary Children's Hospital at Cohen's side.

As more former Primary Children's patients sought out Grove's team, the doctors started to question among themselves, and then with parents and the doctors in the state, whether they needed to do something. It's a rare and may be the only one in the state that performs both bone grafts and facial bone distraction.

Most children born with a cleft in the five state region around Utah are treated. Cohen will become able to talk by around 4 certain treatment in the country and the largest pediatric hospital in the area, and Nevada. Children's Hospital, shared.

A crucial question emerged: Did the hospital's patients, and their anxious parents, know what they were getting into? Were they being offered a different from what staff systems at top hospitals around the country provided?

The question lie at the heart of a common tension in medicine between the sort of innovation that drives life-enhancing advances and the accepted standard of care. It's a tension that can sometimes pit doctors against their colleagues among specialists and insurance company policies.

What information are patients, especially children, owed? And how should surgeons respond when patients want to try something new — especially when doctors, and their chosen, may be geographically or otherwise isolated from their peers?

In the case of cleft lip and palate, the future of children's faces is on the line. The risks of bone grafting and distraction isn't fully known and it has the potential to damage facial growth.

Although there can be signs along the way, not cleft palettes are almost adults will become able to talk a bone if a certain treatment in the country was not always identified or formal.

Cohen's team and other doctors with experience

On a Facebook page for Utah parents of children with cleft, numerous posts over the years speak to the hospital's push to perform LeForts young.

Some talk about how their children endured the surgery before 10 years old — "not going to lie the Halo is tough!" one mother wrote — and needed to repeat a jaw surgery as a teenager.

Holland said she thought there had to be another way to fix her son's underbite and asked about braces. After Primary Children's said there wasn't, she said, she sought a second opinion with Griner, who sent him to an orthodontist instead.

Holland's son was one of at least seven former Primary Children's patients whom Griner said he diverted from having surgery before maturity. None of them, in Griner's opinion, had any medical necessity for the operation before maturity or reported bullying or other psychosocial issues.

Schmelzer, who also signed the complaint against Primary Children's, said his medical records showed similar numbers.

Griner recalled one startling case last summer in which Primary Children's had lined up surgery for a 9-year-old child whose jaw was nearly normal.

An independent plastic surgeon who specializes in cleft at a large academic institution reviewed the patient's CT scan for *ProPublica* and confirmed Griner's assessment that there was no need for surgery.

Holland's son, now 13, has only a minor underbite after orthodontics and likely won't need jaw surgery at all.

"He's totally fine," Holland said. "He was saved from a major surgery."

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Experimenting with bone grafts

About seven years ago, spurred by what Johns said was a "hypothesis we had," Primary Children's cleft team began experimenting with how surgeons bone grafted the upper jaw.

Without putting in place the protections of a formal research study, Johns and her colleagues decided the invasive surgeries could be done successfully when children were years younger — age 2 — than was standard practice in their field.

The "gold standard" for a bone graft is to use a piece of the child's own hip. At 2, a patient doesn't have enough bone to harvest. So over a period of about two years, Primary Children's tested in its toddler-age patients different combinations of materials that would create a lasting bone graft.

Among the materials was a controversial product called bone morphogenic protein, or BMP, which stimulates bone growth. The BMP is put into the jaw where the child is missing bone and, in theory, spurs the body to naturally make bone, gradually filling the gap.

Some cleft doctors have hailed BMP as a less invasive way to treat patients since it first came to market in 2002 — but Primary Children's believed it could be used in children years younger than their peers at other centers.

The parents of several patients told ProPublica they were never informed that their child was undergoing an untested procedure. In some cases the bone graft failed, necessitating a repeat of the painful operation.

In 2017, Gavin Rogers, 21 months old with the wispy blond hair of a baby, had bone graft and hard palate repair. Afterward, "he was screaming all the time. He wasn't sleeping, wasn't eating. I had to squirt milk into his mouth," his mom, Emily Rogers, recalled.

Gavin at 21 months, after his bone graft at Primary Children's Hospital in 2017. His parents said they weren't told that a bone graft at that age was unusual. Credit: Courtesy of Emily Rogers.

Primary's decision to use BMP in toddlers was a risky bet. In 2015, the U.S. Food and Drug Administration (FDA) issued a safety warning about using BMP in children. The warning said that BMP hadn't been approved for children "because their bones may still be growing and using this product may cause serious injuries."

The FDA action followed revelations of injuries, including alleged deaths, related to the use of BMP in spine patients. BMP's maker was subjected to a congressional investigation and paid hundreds of millions to settle civil suits.

The FDA recommended against routine use in children and told doctors to be sure to inform parents about the risks.

Doctors are allowed to use products like BMP for so-called off-label purposes and commonly do, often to the benefit of their patients.

In 2017, Dr. Jeff Hammoudeh, a plastic surgeon at Children's Hospital Los Angeles, published one of the largest studies of BMP in cleft patients and found that over nine years of use its safety and success was comparable to using bone from the child's hip.

But the average age of his patients was 11 and his youngest patient was 6. He said he wouldn't use BMP in patients any younger than that because of concerns, shared by other experts, about the long-term growth of a child's face and questions about the safe amount to use in a child of that size.

Johns, of Primary Children's, said that Hammoudeh's study was one of the reasons her team felt confident in using BMP.

Hammoudeh said doctors need to be up-front about what they are doing and build clear guardrails. When he experimented with performing lip repairs in newborns, he did so through a supervised research study. Parents, he said, were given the choice to have the traditional protocol, just as they were for bone grafting with BMP.

Some doctors may eschew the word "experiment" when trying out a new protocol, he said, but that's what it is — even if they deem it "innovation."

"You can soften the terminology any which way, but if you don't know what the results will be, you don't know what the results will be," he said.

Johns told ProPublica she doesn't offer parents the choice to have a bone graft at the traditional age because she's confident that her way is better. Giving them the option, she said, "means that we're telling them, 'OK, we're going to allow you to have subpar results.'"

Johns said that since as early as 2018, the parents of patients have been told that the new protocol is superior to traditional care, a claim she said is supported by observational results from the team's first patients.

The Rogerses and other parents who spoke with ProPublica said Siddiqi, the lead plastic surgeon at the time, led them to believe that grafting at toddler age was the standard of care.

"One hundred percent," said one mom, whose daughter was not yet 18 months at the time of the procedure and had to repeat the surgery later. She said the conversation with a reporter "was the first I'm hearing this isn't typical."

After his surgery, Gavin happened to see a new doctor outside the hospital. Rogers said she stopped breathing when she learned that around the country, many doctors time bone grafts to when certain adult teeth come in. Gavin still didn't have all his baby teeth.

And the bone graft didn't work. Gavin faces a second bone graft surgery this summer at 8 years old — in the age range when most other doctors would have done it the first time.

Four years after Primary Children's started the protocol, the hospital did its first formal study — a review of 14 patients' medical records.

From around 2017 to mid-2019 — when Johns was telling patients the protocol was a success — the cleft team used different surgical techniques and a combination of bone products, including the BMP, that proved unreliable, and some patients needed additional grafts, according to the study and a university spokesperson.

A hospital spokesperson said its bone grafting procedures have advanced since patients such as Gavin had the operation. Khosla, the Stanford doctor who reviewed the protocol, reported in his summary that newer hospital data demonstrate good early results.

Johns and Agarwal said their new protocol was a slow evolution and didn't need to be overseen by independent reviewers. Performing a bone graft sooner, they said, would solve a common problem in cleft patients in which the arch of their mouth is narrow and collapses inward as they grow.

Moving to age 2 was a minor progression, Johns said, noting that the mouths of a 5-year-old, the youngest age most doctors would do a bone graft, and a 2-year-old are similar.

"There was nothing that felt outlandish about it," Johns said.

Johns concedes they don't know yet how their patients' faces will grow over time. So far, she said the outcomes are trending in the right direction, "but we recognize that we've got eight more years to continue to see if it holds up."

She's clear about this uncertainty with her patients, she said, as well as how Primary's protocols diverge from the standard.

She said if parents are uncomfortable, she encourages them to seek a second opinion. (One mother said Johns' colleague told her that he would no longer treat her son after she sought a second opinion.)

Jessica Bernstein, whose 6-year-old son is a cleft patient at Primary Children's and whom the hospital connected with ProPublica, said she had the utmost confidence in the care received and felt Johns and the other doctors carefully thought out decisions.

She said they told her that the hospital's timeline for care was based on the latest, best research. Although she said she wasn't informed that aspects of the hospital's protocol differ from the standard or that BMP was off-label for children, she felt her son was being treated in the right place.

Other cleft doctors said previous attempts to fix the upper jaw line between birth and 2 years old — known as "primary bone grafting" — were abandoned because of poor outcomes.

Dr. Ron Hathaway recalls when he was at the University of Indiana and participated in a study that compared outcomes at five cleft centers. One fared significantly worse. The upper jaws of many of its patients didn't grow as expected, leaving them with underbites. Hathaway was stunned to learn it was his program.

Indiana, it turned out, was the only one that grafted before age 2. The others waited until patients were school-age. Hathaway had been involved in such grafting at Indiana since 1992, and now he faced the humbling data that his patients were three times more likely than the study's best center to need invasive jaw surgery because of it.

"I had to go home and have a serious conversation with my surgeons," he said.

Indiana eliminated primary bone grafting, and when the study was repeated 10 years later, Hathaway said, outcomes had drastically improved.

While this type of research can't definitively prove causation, he said, "A thinking person would say primary bone grafting causes [poorer growth] of the upper jaw."

The original study was published in 2011, joining a body of research over decades that showed such grafting was "significantly detrimental," Kirschner, of Nationwide, said.

Nevertheless, in 2016 the cleft team at Primary Children's began questioning whether operating earlier would be better, said Agarwal, the chief of plastics. He and Johns said what they do is different — in terms of slightly older age and specifics of the procedure — from the primary bone grafting of the past.

Khosla, of Stanford, wrote in his review summary that the protocol challenges conventional wisdom, but "their rationale and the theoretic benefits are sensible."

For Cindy Anderson, whose daughter's bone graft echoed Gavin's in both timing and failure, it wasn't just that her daughter had to repeat a surgery. Had they been informed of the innovative nature, Anderson said they might have agreed because of their faith in the doctors. But not being given a chance to consent made them feel duped.

She said they're left wondering about Primary Children's: "What the heck are they doing?"

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